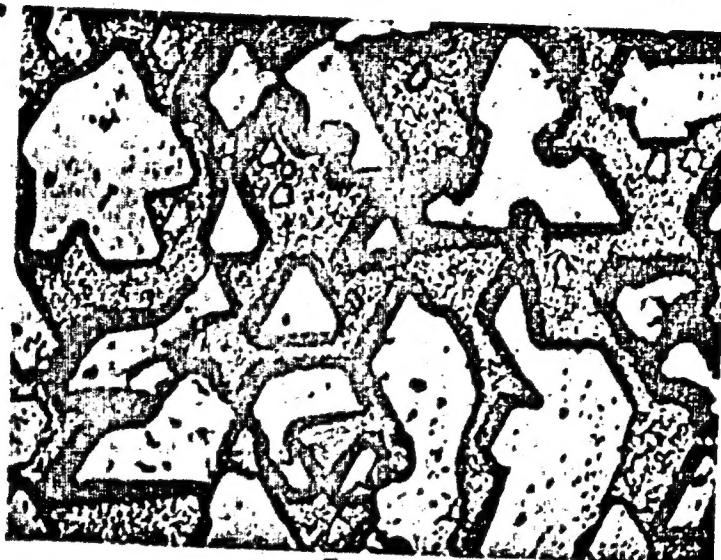


Evaporation of germanium in...

S/181/61/003/001/009/042
B102/B212

Legend to Fig. 3: Surface
of a Ge single crystal
after evaporation at
860°C for 12 hr.



Card 5/5

Fig. 3

S/181/62/004/006/038/051
B108/B138

AUTHORS: Ignatkov, V. D., and Kosenko, V. Ye.

TITLE: Diffusion of tellurium in germanium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1627-1631

TEXT: Diffusion and solubility of tellurium in germanium single crystals between 770 and 900°C were studied. The experiments were performed in evacuated quartz ampoules at tellurium vapor pressure of 10^{-2} mm Hg. The

isotope Te^{125} was used as a tracer. Diffusion was investigated by successive removal of thin layers. Three kinds of diffusion of Te in Ge, each at a different rate, were observed: (1) a new type, the so-called "surface-layer" diffusion with the diffusion coefficient

$D_s = 2 \exp\left(\frac{-65000}{RT}\right)$. (2) "Slow" diffusion with $D_{s1} = 5.6 \exp\left(\frac{-56000}{RT}\right)$.

(3) "Fast" diffusion. The diffusion coefficient of this type at 800°C was $5 \cdot 10^{-7} \text{ cm}^2/\text{sec}$. The respective concentration limits (solubilities) of Te in Ge at 800°C, each pertaining to its specific type of diffusion, were

Card 1/2

SANDALOV, Leonid Mikhaylovich, general-polkovnik; IGNATKOVICH, G.M.,
red.; KRASAVINA, A.M., tekhn. red.

[Reminiscences] Pereshitoe. Moskva, Voen.izd-vo M-va obor.
SSSR, 1961. 189 p. (MIRA 15:5)
(Military education) (World War, 1939-1945)

RESEARCH/Chemical Technology. Chemical Products and Their
Application. Food Industry.

H-28

Doc Jour: Ref Zhur-Khim., No 2. 1959, 6400.

Author : Ignatov, D.

List :

Title : Storage of Products of Animal Origin in Cold Storage
Plants.

Orig Pub: Rev. ind. aliment. prod. animale, 1957, No 1, 11-14.

Abstract: Requirements to be met by products (sweet butter
and cheeses) stored under refrigeration, the condi-
tions of storage, the rule of storage in cold sto-
rage plants, and requirements, which should be met by
the latter, are presented. The duration of storage
of individual kinds of cheese is given. - A. Marin.

Card : 1/1

IGNATOIU, D.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE ANIMALE. No. 2,
1958.

IGNATOIU, D. Coefficients of utilization of general cold storage.
p. 5.

Monthly List of East European Accession (EEAI), LC., Vol. 8, No. 23
March 1958, Unclass.

COUNTRY : Rumania
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 22 1959 No. 80138
 AUTHOR : Ignatou, D.
 INST. : Not given
 TITLE : The Stability of Certain Varieties of Apples and Pears during Cold Storage. I, II.
 ORIG. PUB. : Rev Ind Aliment Prod Vegetale, No 5, 5-11; No 7-8, 30-35 (1958)
 ABSTRACT : I. Jonathon apples from the districts of Pitesht and Kypulung [transliterated] were stored in crates (25 kg each) from December through May at 0° and 4.5° (relative humidity of the air 87-92%) and under normal conditions in rooms disinfected with a solution of CuSO₄. Periodic determinations were made on the organoleptic properties of the apples, the loss in weight, and the presence of defects. The apples attained consumer ripeness in December. The total losses (in %) at 0°

CARD: 1/4 269

COUNTRY : Rumania
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 22 1959 No. 80138
 AUTHOR :
 INST. :
 TITLE :
 ORIG. PUB. :
 ABSTRACT : increased from 1.1-5.6 (December) to 15-21.9 (May); at 4.5°, from 3.3-6.8 (December) to 16.8-37 (May); and under normal conditions, from 1.4-7.4 (December) to 34.8-52.4 (May). A table and 14 graphs expressing the dynamics of the losses during storage are given. The apples showed an equal degree of retention of properties regardless of area of origin when stored under similar conditions.

CARD: 2/4

COUNTRY :	Rumania	H-28
CATEGORY :		
ABS. JOUR. :	RZKha., No. 22, 1959 No.	80138
AUTHOR :		
INST. :		
TITLE :		
ORIG. PUB. :		
ABSTRACT :	the diseases are indicated. The disinfection of the storage rooms with a 5% solution of CuSO_4 is recommended.	
	A. Marin	
CARD :	4/4	

IGNATOIU, D.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE ANIMALE. No. 5, 1958.

IGNATOIU, D. Indexes of using public cold storage installations. II. p. 9.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

IGNATOIU, D.

AGRICULTURE

IGNATOIU, D. Observation on the resistance to preservation in frozen
state of certain kinds of apples and pears. p.5.
Aerosol packaging for perfumes, cosmetics, and food.p.12.

Vol. 7, no. 5, Nov. 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3.
March 1959 Unclass,

IGNATOIU, D.

AGRICULTURE

IGNATOIU, D. Indexes of using public cold storage installations II. pl 9.
Processing cheese in the course of ripening. p. 13.
New Development of plastic materials for packaging purposes. p. 16.

Vol. 7, no. 15, Nov. 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

IGNATOTU, D

TECHNOLOGY

PERIODICAL: REVISTA INDUSTRIEL ALIMENTARI? PRODUCE VEGETALE No. 7/8, 1958

IGNATOTU, D. Observations on the resistance to conservation of some varieties of apples and pears while under refrigeration. II' p. 30

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4
April 1959, Unclass

NAUMKIN, O.P. (Moskva); IGNATOV, D.V. (Moskva)

Structural and kinetic investigation of the oxidizability of metallic
scandium. Izv. AN SSSR. Met. i gor. delo no.5:142-146 S-0 '54.
(MIRA 18:1)

IGNATOK, A.I., inzh., red.; SIDOROVSKIN, S.S., inzh., red.; GORDEYEVA,
L.P., tekhn. red.

[Rules for accident prevention and industrial hygiene in the production of acetylene, oxygen, and in the flame machining of metals] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri proizvodstve atsetilena, kisloroda i gazoplazmennoi obrabotke metallov. Soglasovany s Glavnoi Gosudarstvennoi sanitarnoi inspeksiei SSSR 27 sentyabrya 1958 g. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroyeniya, 1959. 100 p.

(MIRA 14:5)

1. Profsoyuz rabochikh mashinostroyeniya. Tsentral'nyy komitet.
(Gas welding and cutting) (Acetylene) (Oxygen)

IGNATOK, A.I., inzh.; BETEREV, M.M., kand.tekhn.nauk, red.; PODVOL'SKIY, L.I., starshiy inzh., red.; EL'TERMAN, V.M., kand.tekhn.nauk, red.; KUGINIS, B.L., red.; VASIL'YEV, Ye.V., starshiy inzh., red.; NEVSKIY, A.I., inzh., red.; GLAGOLEVA, T.A., kand.tekhn.nauk, red.; VROBLEVSKIY, R.V., red.

[Safety engineering regulations and industrial hygiene in electric welding operations] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri elektrosvarochnykh rabotakh. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 38 p.

(MIRA 14:6)

1. Profsoyuz rabochikh mashinostroyeniya. TSentral'nyy komitet.
2. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov (for Beterov, El'termah, Glagoleva).
3. Nauchno-issledovatel'skiy tekhnologicheskoy institut avtomobil'noy promyshlennosti (for Podvol'skiy).
4. Glavnyy tekhnicheskoy inspektor TSentral'nogo komiteta profsoyuza (for Kuginis).
5. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya (for Vasil'yev).
6. Nachal'nik podotdela energo-oborudovaniya avtozavoda im. Likhacheva (for Nevskiy).
7. Vedushchiy inzh. Vsesoyuznogo proyektno-tekhnologicheskogo instituta stroitel'nogo i dorozhnogo mashinostroyeniya (for Vroblevskiy).

(Electric welding—Safety measures)

S/117/60/000/010/008/012/XX
A033/A133

AUTHOR: Ignatok, A.I.

TITLE: Multi-purpose chip-breaking cutting tools

PERIODICAL: Mashinostroitel', no. 10, 1960, 27 - 29

TEXT: The author reports on the practice of the Lipetskiy traktorny zavod (Lipetsk Tractor Plant) of designing, fabricating and introducing into production multi-purpose chip-breaking tools with fine flutes on the cutting edge. The flutes are made by the lapping method and, depending on the cutting conditions, three types of flutes are utilized: a) closed; b) through-flutes; c) bow-shaped (Fig. 1). The closed-type flute does not reach down to the auxiliary cutting edge which ensures an increased strength of the tool top. Since the through-flute gets down to the auxiliary cutting edge the tool top is somewhat weakened. Therefore, this type of flute should be used for tools working with cutting depth of less than 0.5 mm and feeds up to 0.3 mm/rev. Bow-shaped flutes are used for tools with curvilinear cutting edges, e.g., recessing tools. The curvature radius R_1 of the flute bottom in the range of 10 - 40 mm does not essentially affect the chip-breaking process. The sintered carbide plates should be soldered onto

Card 1/3

Multi-purpose chip-breaking cutting tools

S/117/60/000/010/008/012/XX
A033/A133

the holders at an angle of $\gamma = 0$. On the front edge along the main cutting edge a small space 3 - 4 mm wide with a rake angle $\gamma = -5^\circ$ has to be ground on which the fine flutes are lapped. It was found that the chip gets accurately into the flute during the working of different steels if the width of the chamfer is not greater than half the chip thickness. The width of chamfer can be determined by

the formula: $f = \frac{s \sin \varphi}{2} \cdot \eta$, where s - feed in mm; φ - main cutting edge angle; η - coefficient of chip shrinkage (is to be determined experimentally). The length of the flutes should be somewhat greater than the width of cut, so that the chip with all its width gets into the flute. The author recommends a flute depth h in the range of 0.1 - 0.15 mm. The flute bottom radius should be selected in such a way that a dependable chip breaking is ensured. The rounding off radius R of the flute bottom and the width of chamfer f depends on the chip thickness, and it was established by tests that the maximum permissible radius increases with a growing chip thickness. The lapping of the fine flutes is carried out with a rotating disk-lamp made of bronze or cast iron charged with boron carbide. The flutes can be produced on multi-purpose grinding machines or horizontal milling machines. The author gives a description of a special fixture used for the lapping of the chip-breaking flutes and a brief description of the lapping process. During a 7-hour shift one grinder is able, with the aid of this

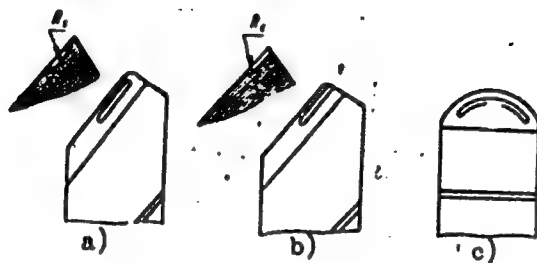
Card 2/3

Multi-purpose chip-breaking cutting tools

S/117/60/000/010/008/012, XX
A033/A133

fixture, to produce 800 or more fine flutes on tools tipped with sintered carbide bits. There are 4 figures and 3 tables.

Figure 1



Card 3/3

IGNATOK, A.I., inzh.; SHIFMAN, G.M., kand. med. nauk, red.; KORETSKIY, V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., red.; KOGAN, G.M., starshiy inzh., red.; NARBKOVA, N.N., starshiy inzh., red.; SIDOROKHIN, S.S., starshiy inzh., red.; SOFOKINA, G.Ye., tekhn. red.

[Safety and industrial sanitation regulations for founding shops in the machinery industry] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii v liteynom proizvodstve mashinostroitel'noi promyshlennosti. Uтверждены Президиумом ЦК Профсоюзов рабочих машиностроения 19 ноября 1958 года.... Москва, Гос. научно-техн. изд-во машиностроит. лит-ры, 1960. 67 p. (MIRA 14:9)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskiy inspektor Tsentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya (for Ignatok, Mikhaylova). 3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman). 4. Moskovskiy zavod "Stankolit" (for Koretskiy). 5. Uchenyy sekretar' NIITLITMASHa (for Shulenin). 6. Gosudarstvennyy institut po proyektirovaniyu stankostroitel'nykh, instrumental'nykh, abrazivnykh zavodov i zavodov kurnechno-pessovogo mashinostroyeniya (for Narbekova). 7. Moskovskiy avtozavod im. Likhacheva (for Kogan). 8. Gosudarstvennyy komitet Soveta Ministrov SSSR po sudostroyeniyu (for Sidorochkin).

(FOUNDING—SAFETY MEASURES) (FACTORY SANITATION)

IGNATOK, A.I., inzh.

[Safety regulations for warehousemen and workers receiving and dispensing acids and other chemical materials]Instruktsiia po tekhnike bezopasnosti dlia kladovshchikov i rabochikh, zaniatykh polucheniem i otpuskom kislot i drugikh khimicheskikh materialov. Moskva, Mashgiz, 1961. 12 p.
(MIRA 15:8)

(Chemicals--Storage--Safety measures)

IGNATOK, A.I., inzh.; SHIFMAN, G.M., kand. ped. nauk, red.; KORETSKIY, V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., tekhn. inspektor, red.; KOGAN, G.M., starshiy inzh., red.; NARBKOVA, N.N., starshiy inzh., red.; SIDOROV, S.S., starshiy inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Regulations on safety measures and industrial sanitation in foundry practice in the machinery industry] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii v liteinom proizvodstve mashinostroyitel'noi promyshlennosti. Uverzhdeny Prezidiumom TsK Profsoyuza rabochikh mashinostroyeniia 19 noiabria 1958 goda... Moskva, Mashgiz, 1961. 69 p. (NIRA 15:6)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskii inspektor Tsentral'nogo komiteta profsoyuza mashinostroyeniya SSSR (for Ignatok). 3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman). 4. Moskovskiy zavod "Stankolit" (for Koretskiy). 5. Uchenyy sekretar' Nauchno-issledovatel'skogo instituta liteynogo mashinostroyeniya i liteynoy tekhnologii (for Shulenin). 6. Tekhnicheskii inspektor Tsentral'nogo komiteta profsoyuza mashinostroyeniya SSSR (for Mikhaylova). 7. Moskovskiy avtozavod im. Likhacheva (for Kogan). (Continued on next card)

IGNATOK, A.I.--- (continued) Card 2.

8. Gosudarstvennyy institut po proyektirovaniyu stankostroitel'nykh, instrumental'nykh, abrazivnykh zavodov i zavodov i zavodov kuznechno-pressovogo mashinostroyeniya (for Narbekova). 10. Gosudarstvennyy komitet Soveta Ministrov SSSR po sudostroyeniyu (for Sidorochkin).

(Founding--Safety measures)

IGNATOK, A.I., red.; LABUTIN, V.P., red.; IVANOV, I.Z., strashyy inzh. po tekhnike bezopasnosti, red.; GANUSHKINA, Ye.V., kand. tekhn. nauk, red.; PLAKHIN, A.S., kand. med. nauk, starshyy nauchnyy sotr., red.; SHMYGOVA, K.N., red.; FESEL', M.I., starshyy tekhnolog, red.; ALEKSEYEV, A.I., red.; DOBRITSYNA, R.I., tekhn. red.

[Safety and sanitation regulations for electroplating shops] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri proizvodstve metallopokrytii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 30 p. (MIRA 14:8)

1. Profsoyuz rabochikh mashinostroyeniya SSSR.
 2. Glavnyy tekhnicheskii inspektor Tsentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya SSSR (for Ignatok).
 3. Nachal'nik laboratorii metallopokrytii Nauchno-issledovatel'skogo instituta tekhnologii avtomobil'noy promyshlennosti (for Labutin).
 4. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (for Ivanov).
 5. Nachal'nik laboratorii metallopokrytii Nauchno-issledovatel'skogo instituta tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya (for Ganushkina).
 6. Moskovskiy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Plakhin).
 7. Moskovskiy zavod malolitrzhnykh avtomobiley (for Fesel').
 8. Glavnyy konstruktor Gosudarstvennogo instituta po proyektirovaniyu zavodov avtomobil'noy promyshlennosti (for Alekseyev).
- (Electroplating—Safety measures) (Factory sanitation)

DUKHANIN, Yu.A., inzh.; IGNATOK, A.I., inzh., otv. red.; DOBRITSYNA, R.I.,
tekh. red.

[Safety and industrial sanitation regulations for the heat treatment
of metals; approved by the Central Committee Presidium of the Trade
Union of Machinery Industry Workers] Pravila tekhniki bezopasnosti i
proizvodstvennoi sanitarii pri termicheskoi obrabotke metallov. Ut-
verzhdery Prezidiumom TsK profsoiuza rabochikh mashinostroeniia 6
iiulia 1960 g. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.lit-
ry, 1961. 50 p. (MIRA 14:11)

(Metals—Heat treatment) (Industrial safety)
(Industrial hygiene)

DUKHANIN, Yu.A., inzh.; IGNATOK, A.I., red.; FIALKOVSKAYA, T.A., starshiy nauchnyy sotr., red.; DMITRIYEVA, A.A., red.; KAZANSKIY, A.M., starshiy inzh., red.; FEDOROV, Ye.N., red.; SMIRNOVA, G.V., tekhn. red.

[Regulations for safety and sanitary measures for the painting of parts in the machinery industry] Pravila tekhniki bezopasnoti i proizvodstvennoi sanitarii pri okraske izdelii v mashinostroenii. Utverzhdeny postanovleniem Prezidiuma TsK profsoyuza rabochikh mashinostroyeniia 27 iuliia 1960 g. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 92 p. (MIRA 14:11)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Komissiya TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya SSSR i Moskovskiy avtomekhanicheskii institut (for Dukhanin). 3. Glavnyy tekhnicheskii inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya SSSR (for Ignatok). 4. Moskovskiy institut okhrany truda (for Fialkovskaya). 5. Nachal'nik proyektного byuro Moskovskogo zavoda malolitrzhnykh avtomobiley (for Dmitriyeva). 6. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya (for Kazanskiy). 7. Nachal'nik otdela Nauchno-issledovatel'skogo tekhnologicheskogo instituta avtomobil'noy promyshlennosti (for Fedorov).

(Painting, Industrial—Safety measures)

IGNATOK, A.I., inzh., red.; SIDORCHIN, S.S., inzh., red.; DOBRITSINA,
R.I., tekhn. red.

[Regulations for safety and sanitary measures in the production of acetylene, oxygen and in gas metal cutting] Pravila tekhniki bezopasnosti i proizvodstvennoi sanitarii pri proizvodstve atsetilena, kisloroda i gazoplamennoi obrabotke metallov. Utverzhdeny postanovleniem Prezidiuma TsK profsoiuza rabochikh mashinostroeniia 29 sentiabria 1958 g. Moskva, Mashgiz, 1961. 98 p. (MIRA 14:11)

1. Profsoyuz rabochikh mashinostroyeniya SSSR.
(Gas welding and cutting—Safety measures) (Oxygen)
(Acetylene generators—Safety measures)

IGNATOK, A.I., red.; SHAYKEVICH, A.S., red.; VOLKOV, Yu.N., red.;
EL'TERMAN, Ye.M., red.; PERLOVA, S.A., red.; NIKOLAYEV, N.A.,
red.; ERENBURG, G.S., red.; BUTKOVSKAYA, Z.M., red.;
CHERNILOVSKAYA, F.M., red.; YANKOVSKIY, V.F., red.; MALYGIN,
O.P., red.; BOGOMOLOV, I.G., red.; KOZLOV, A.A., red.; SMIRNOV, I.I.,
inzh., red.; ROGOV, B.A., red.; PETRUKHOVA, G.N., red. izd-va;
DEMKINA, N.F., tekhn. red.

[Safety and industrial sanitation regulations for making boilers
and metal constructions] Pravila tekhniki bezopasnosti i proiz-
vodstvennoi sanitarii pri proizvodstve kotel'nykh rabot i metallo-
konstruktsii. Utverzheny 29 avgusta 1961 goda. Moskva, Mashgiz,
1962. 28 p. (MIRA 15:12)

1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnyy tekhnicheskii inspektor Tsentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya (for Ignatok). 3. Starshiye nauchnyye sotrudniki Leningradskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soвета profsoyuzov (for Shaykevich, Volkov, El'terman, Perlova). 4. Nachal'nik otdela Vsesoyuznogo proyektno-tekhnologicheskogo instituta tyazhelogo mashinostroyeniya (for Nikolayev). 5. Starshiye nauchnyye sotrudniki Leningradskogo instituta gigiyeny truda i profzabolevaniy (for Erenburg, Butkovskaya, Chernilovskaya).

(Continued on next card)

IGNATOK, A.I.; TSYGANOV, M.A.; KUGINIS, B.L.; KHRAMTSOV, V.A.;
DUKHANIN, Yu.A., retsenzent; SIMONS, D.Ya., red.;
POCHTAREVA, A.V., red.izd-va; DOBRITSYNA, R.I., tekhn.red.;
SMIRNOVA, G.V., tekhn. red.

[Manual on safety engineering and industrial hygiene in
machinery industry enterprises] Spravochnik po tekhnike
bezopasnosti i proizvodstvennoi sanitarii dlia pred-
priiatii mashinostroeniia. Sost. A.I. Ignatok, i dr. Mo-
skva, Mashgiz, 1962. 591 p. (MIRA 15:2)

(Machinery ~~industry~~ → Safety measures)

(Machinery industry—Hygienic aspects)

OMEL'YANENKO, V.P., polkovnik; IGNATOSYAN, S.A., inzhener-mayor

Compute the aerodynamic drift angle of the Mi-4. Vest.
Vozd.Fl. no.7:83-84 J1 '60. (MIRA 13:7)
(Helicopters)

REEL # 183 END

HUDEEC, R.
IGNATOSYAN, S.A.